

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A modified breathing apparatus for medicating an air stream, said modified breathing apparatus comprising:
 - a. a breathing apparatus ~~comprising including~~ including ~~one of~~ a regulator suitable for delivering air from a source of compressed air, the regulator adapted for use in at least one of scuba gear, aircraft applications, gas masks, hazardous environments, mountaineering, power assisted respirators and other similar applications, and ~~a snorkel or part thereof, a rebreathing device or~~ a self-contained breathing apparatus;
 - b. a medication chamber adapted to store and discharge a therapeutic agent;
 - c. a delivery pathway between the chamber and an intake air pathway of the breathing apparatus; and
 - d. releasing means for selectively discharging the therapeutic agent from the chamber into the intake air pathway through the delivery pathway.
2. (Previously presented): The modified breathing apparatus of claim 1 wherein the breathing apparatus is a second stage regulator for scuba diving.
3. (Canceled)
4. (Previously presented): The modified breathing apparatus of claim 1 wherein the breathing apparatus is a self-contained breathing apparatus ("SCBA") suitable for use in firefighting and rescue, industry, shipping, mining, mountaineering, hazardous environment, aircraft and/or conditions of higher or lower atmospheric pressure.

5. (Previously presented): The modified breathing apparatus of claim 1 wherein the medication chamber is sealed to resist entry of water, mud, dust or other contaminants.
6. (Previously presented): The modified breathing apparatus of claim 5, wherein the therapeutic agent is housed in a container, said container adapted to locate in the medication chamber.
7. (Previously presented): The modified breathing apparatus of claim 1 wherein the medication chamber is formed integrally with the breathing apparatus.
8. (Previously presented): The modified breathing apparatus of claim 1 wherein the medication chamber is formed for releasable engagement with the breathing apparatus.
9. (Previously presented): The modified breathing apparatus of claim 2 further comprising balance means for substantially equalising equalizing pressure in the chamber with ambient pressure.
10. (Currently amended) The modified breathing apparatus of claim 6 wherein the container for housing the therapeutic agent is a ~~pressurised~~ pressurized canister.
11. (Currently amended) The modified breathing apparatus of claim 10 wherein the ~~pressurised~~ pressurized canister has a release valve which is pressure activated to discharge the therapeutic agent.
12. (Previously presented): The modified breathing apparatus of claim 1 wherein the therapeutic agent is one or more of albuterol, salbutamol, adrenaline, beconase or glucose.
13. (Previously presented): The modified breathing apparatus of claim 6 wherein the container comprises a capsule, a vial, a gelatine capsule or a blister pack
14. (Previously presented): The modified breathing apparatus of claim 1 wherein the delivery pathway is formed by the chamber being disposed along the intake airway or pathway.
15. (Previously presented): The modified breathing apparatus of claim 1 wherein the delivery pathway is a bore, channel or aperture.

1 16. (Previously presented): The modified breathing apparatus of claim 15 wherein the
2 delivery pathway is a detour pathway adapted to direct some or all of the intake air
3 through the chamber.

1 17. (Previously presented): The modified breathing apparatus of claim 15 wherein the
2 delivery pathway includes valve means operable to open and close the bore,
3 channel or aperture..

1 18. (Canceled)

1 19. (Canceled)

1 20. (Canceled)

1 21. (Canceled)

1 22. (Currently amended): The modified breathing apparatus of claim 10 wherein the
2 releasing means comprises a rotatable ~~dial or~~ control for activating a displacement
3 mechanism to displace one of the ~~pressurised~~ pressurized canister and ~~or~~ a seat co-
4 operating with the canister and thereby activate the release valve of the ~~pressurised~~
5 pressurized canister..

1 23. (Previously presented): The modified breathing apparatus of claim 22 wherein the
2 displacement means is a cam operated slide positioned in the medication chamber.

1 24. (Canceled)

1 25. (Currently amended): The modified breathing apparatus of claim 10 wherein the
2 releasing means includes a pressure activated button for displacing one of the
3 canister under a seat cooperating with the canister to discharge the therapeutic
4 agent through a release valve of the ~~pressurised~~ pressurized container.

- 1 26. (Canceled)
- 1 27. (Currently amended): The modified breathing apparatus of ~~either any one of~~ claims
2 17 or 19, 22, 24 or 25 wherein depression of ~~[[a]]~~ the pressure activated button or
3 rotation of ~~[[a]]~~ the rotatable dial ~~or~~ control rotates a delivery chute into a discharge
4 position from an inactive position..
- 1 28. (Canceled)
- 1 29. (Previously presented): The modified breathing apparatus of claim 1 further
2 including counting means for indicating, at least approximately, the number of doses
3 of therapeutic agent that have been discharged from the medication chamber.
- 1 30. (Previously presented): The modified breathing apparatus of claim 29 wherein the
2 counting means is formed as one or apertures in the chamber wall with moveable
3 indicia visible therethrough, said moveable indicia providing an indication of either or
4 both the number of dosages discharged from the chamber or the level of residual
5 therapeutic agent in the chamber.
- 1 31. (Currently amended): The modified breathing apparatus of claim 1 wherein
2 including a mouthpiece, said mouthpiece is formed to provide separation between
3 the teeth of a user, having an upper shield for receiving the upper teeth and a lower
4 shield for receiving the lower teeth and an inlet aperture positioned between the
5 upper and lower shields.
- 1 32. (Canceled)
- 1 33. (Currently amended): A medication chamber for use in medicating an air stream,
2 the medication chamber comprising:

- a. an outer housing defining an internal chamber containing a therapeutic agent;
- b. mounting means for fixing the medication chamber to an air channelling device, said air channelling device comprising a regulator adapted for use in scuba gear, aircraft applications, gas masks, hazardous environments, mountaineering, power assisted respirators and other similar applications, ~~a snorkel or part thereof, a rebreathing device or a self-contained breathing apparatus;~~
- c. at least one delivery path from the internal chamber externally and adapted to deliver the therapeutic agent to an air pathway in the air channelling device; and
- d. releasing means for releasing the therapeutic agent from the internal chamber.

34. (Currently amended): The medication chamber of claim 33 ~~wherein~~ including one or more of:

- a. the outer housing is formed of metal, plastic or polyvinyl chloride[.];
- b. the internal chamber sealed to resist entry of water, mud, dust or other contaminants;
- c. the outer housing formed as two inter-engageable sections;
- d. the therapeutic agent being any one of more of salbutamol, beconase, adrenaline, aminophylline or glucose;

- 9 e. the outer housing including an inlet pathway for receiving a pressurized air
10 supply into the internal chamber; and
11 f. the outer housing including an outlet valve for discharging air from the
12 internal chamber when air pressure inside the chamber exceeds the
13 pressure outside the internal chamber.

1 35. (Canceled)

1 36. (Canceled)

1 37. (Canceled)

1 38. (Canceled)

1 39. (Currently amended): The medication chamber of claim 33 wherein the therapeutic
2 agent is held in a ~~pressurised~~ pressurized container having a release valve, the
3 ~~pressurisable~~ pressurized container locatable inside the outer housing.

1 40. (Canceled)

1 41. (Canceled)

1 42. (Previously presented): The medication chamber of claim 39 wherein the releasing
2 means includes a rotatable dial for activating a cammed mechanism to displace the
3 canister and operate the release valve to thereby discharge a dose of therapeutic
4 agent.

1 43. (Canceled)

1 44. (Previously presented): The medication chamber of claim 39 wherein the releasing
2 means includes a pressure activated button for displacing the canister or the seat
3 and activating the release valve.

1 45. (Canceled)

1 46. (Canceled)

1 47. (Canceled)

1 48. (Canceled)

1 49. (Canceled)

1 50. (Canceled)

1 51. (Canceled)

1 52. (Canceled)

1 53. (Canceled)

1 54. (Currently amended): A method of medicating an air stream in a breathing
2 apparatus comprising a regulator suitable for delivering air from a source of
3 compressed air, the regulator adapted for use in at least one of scuba gear, aircraft
4 applications, gas masks, hazardous environments, mountaineering, power assisted
5 respirators and other similar applications, and a snorkel or part thereof, a
6 ~~rebreathing device or a self-contained breathing apparatus~~, the method comprising
7 the steps of mounting a chamber containing a therapeutic agent to a breathing
8 apparatus and introducing one or more doses of the therapeutic agent into an inlet
9 pathway for inspiratory air.

1 55. (Canceled)

1 56. (Canceled)

1 57. (Canceled)

1 58. (Canceled)

1 59. (Canceled)

1 60. (Currently amended): The method of claim 54 wherein the step of introducing one or
2 more doses of the therapeutic agent into an inlet pathway ~~may comprise~~ comprises
3 the step of introducing the therapeutic agent directly into the inlet pathway from the
4 chamber or through a delivery air pathway from the chamber to the inlet pathway.